BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

***Name of Work**: Estimate for Construction of RCC Drain at doddabommasandra Main road from Najappa Circle to Petrol Bunk in Ward No-10 (Doddabommasandra).*

Job Code: 010-20-000062

P-Code: P-0541 Emergency Reserve Fund

Estimated Cost: Rs. 100.00 Lakhs

BRUHAT BENGALURU MAHANAGARA PALIKE

NAME OF WORK : Construction of RCC Drain at doddabommasandra Main road from Najappa Circle to Petrol Bunk in Ward No-10 (Doddabommasandra)

SL. NO.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7	8	9	10
1	KSRRB M200-12.3. **Dismantling of existing structures** like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. **i) Lime /Cement Concrete. I. By Manual Means B. Cement Concrete Grade M-15 & M-20.** MORTH Specification No. 202								
	PWD Bangalore SR 2018-19 Page No.139, Item No.18.19								
	Coping	Cum	2	480.00	0.50	0.15	72.00		
						Total	**72.00**	601.56	43312.00
2	**KSRRB M200-15.2. Dismantling of existing** structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. **Rubble stone masonry in cement mortar.** MORTH Specification No. 202 (SR 18-19 Item no 18.27 & Page No 140)								
	PWD Bangalore SR 2018-19 **(Item no 18.27 & Page No 140)**								
	SSM Drain wall Dismatling								
	Darin Walls	Cum	2	174.00	(0.9+0.45) /2	1.50	354.96		
						Total	**354.96**	379.08	134558.00
3	**Diversion of water course by providing Coffer dams or bunds** or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete. - - **1.50 mtrs depth Below LWL**								
	PWD Bangalore SR 2018-19 Page No.269, Item No.37.41.2								
	Construction of SSM Wall								
		Cum	1	174.00	(0.9+0.5) /2	0.60	73.08		
						Total	**73.08**	319.68	23362.00
4	"KSRRB M2100-5.2. **Earth work in excavation for foundation of structures** as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. **"V. Marshy soil - B. Mechanical Means** MORTH Specification No. 304								
	PWD Bangalore SR 2018-19 Page No.221, Item No.27.13								
	Construction of SSM Wall	Cum							
			1	480.00	2.10	0.59	592.93		
	Hand railing Pole Concrete	Cum	628	0.3	0.3	0.3	16.96		
						Total	**609.89**	200.10	122039.00

SL. NO.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7	8	9	10
5	**KSSRB M2100-2.1** Earth work in **Excavation for foundation** of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification No.304 B. in **Ordinary soil upto 3m** depth(By mechanical means)(SR 18-19 Item no 27.4 & Page No 220)								
	PWD Bangalore SR 2018-19 **(SR 18-19 Item no 27.4 & Page No 220)**								
	Construction of SSM Wall	Cum							
			2	174.00	1.30	2.10	950.04		
	Deduct SSM Quantity		2	174.00	0.68	1.50	354.96		
						Total Quantity	595.08		
						Total	**595.08**	59.00	35110.00
6	**KSRRB M2100-13** - Plain Cement Concrete **1:2:4** with OPC cement @ 240 kgs, with 40mm and down size graded granite metal coarse aggregates @0.84 cum and fine aggregates @ 0.56cum, in open foundation including cost of all materials, labour, HOM curing, from works, scaffolding and centring complete as per Specification complete as Drawing and Technical Specifications. MORTH Specification No.1500, 1700 & 2100								
	PWD Bangalore SR 2018-19 Page No.222, Item No.27.24								
	Construction of SSM Wall	Cum							
	SSM wall PCC		2	174.00	1.30	0.10	45.24		
	SSM Coping		2	480.00	0.60	0.075	43.20		
	Bed Protection PCC		1	480.00	2.10	0.10	100.80		
						Total	**189.24**	5511.24	1042947.00
7	KSRRB M2100-17.2. Providing and laying Plain / Reinforced Cement Concrete design mix **M25 with OPC cement @ 340kgs, with 20mm and down size** graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008,**Open Foundation** complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per Specifications. MORTH Specification No. 1500,1700 & 2100								
	PWD Bangalore SR 2018-19 Page No.223, Item No.27.29								
	Construction of SSM Wall	Cum							
	Bed Protection Raft Concrete		1.00	480.00	2.10	0.15	151.20		
						Total	**151.20**	5394.60	815664.00
8	KSRRB M2100-12.2. Providing and constructing Stone Masonry Work in Cement Mortar 1:4 in Foundation complete as per Drawing and Technical Specifications including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. B. Random Rubble Masonry(coursed / uncoursed)MORTH Specification No. 1405.4 **New Stones**								
	PWD Bangalore SR 2018-19 Page No.222, Item No.27.23								
	Construction of SSM Wall	Cum							
	1St Lift SSM wall		2.00	174.00	1.20	0.45	187.92		
	2nd Lift SSM Wall		2.00	174.00	0.90	0.80	250.56		
	3rd Lift SSM Wall		2.00	174.00	0.60	0.80	167.04		
	Rasing of SSM Wall		2.00	306.00	0.60	0.40	146.88		
						Total	**752.40**		
						Deduct 60% Quantity for Available Stones	**451.44**		
						Total Quantity	**300.96**	4574.88	1376856.00

SL. NO.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7	8	9	10
9	Providing and constructing Stone Masonry Work in Cement Mortar 1:4 **using available stones at site** in Foundation complete as per Drawing and Technical Specifications including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. B. Random Rubble Masonry(coursed / uncoursed)MORTH Specification No. 1405.4								
	Data Rate								
	Construction of SSM Wall	Cum							
	Available Stone Quantity for 60% Vide On Item No-11						451.44		
						Total	**451.44**	2960.97	1336701.00
10	KSRB 15.1.3 – do – Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.**KSRB 15.1.3 – do – cement mortar 1:3**								
	PWD Bangalore SR 2018-19 Page No.115, Item No.15.3								
	Construction of SSM Wall	Cum							
			2.00	480.00		1.60	1536.00		
						Total	**1536.00**	153.36	235561.00
11	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification								
	PWD Bangalore SR 2018-19 **(Item no 4.5 & Page No-13)**								
	Hand railing Pole Concrete	Cum	628	0.30	0.30	0.30	16.96		
						Total	**16.96**	5754.24	97569.00
12	KSRRB M800-20.Tubular Steel Railing on Medium Weight Steel Channel (ISMC Series) 100 mm x 50mm:-Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 metres high above ground, 2 m centre to centre, complete as per approved drawings as per specifications. MORTH Specification								
	PWD Bangalore SR 2018-19 **(Item no 24.24 & Page No-184)**								
		m	2	940.70			1881.40		
						Total	**1881.40**	1540.08	2897507.00
13	**KSRRB M100-1 Loading and Unloading** of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
	PWD Bangalore SR 2018-19 **(Item no 17.1 & Page No-136)**								
		Cum	Quantity From Item No-5,6 And 7				1204.97		
	Deduct For Back Filling Quantity		2	174	0.3	1.6	167.04		
	Deduct For Back Filling Quantity		2	174	0.6	1.6	334.08		
						Total	**703.85**	130.68	91979.00

SL. NO.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7	8	9	10
14	**KSRRB M2200-6.** Providing **T.M.T. steel** reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.MORTH Specification No.1600 & 2200 **TMT Bars Fe 500 (For Sub Structure)**								
	PWD Bangalore SR 2018-19 Page No.229, Item No.28.8.2								
	Bed Protection								
	For Consider 50 Kg/cum		1	151.20	0.05		7.56		
						Total	**7.56**	73691.64	557109.00
								SUB TOTAL	**8810274.00**
	Works contract GST 12% as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65 RDF 2017, Dated 11-10-2018								1,057,233.00
	Provision for **PMC charges at 1.50 %** of sub total amount								132,154.00
								Sub Total	**1,189,387.00**
								Miscellaneous and other Charges	**339.00**
								GRAND-TOTAL	**10,000,000.00**
	Rupees One Crore Only								

CERTIFICATE:-

1) This work spot has been inspected and the work is found to be necessary.
2) This Estimate is prepared as per C.S.R of 2018-19 KPWD Bangalore Circle SR.
3) The work proposed in this estimate is not included in any other scheme.
4) The provision were made in this estimate are necessary essential and adequate to execute the work as per site condition.
5) The above work location is coming under jurisdiction of BBMP limit.

Sweetha-N.K
Assistant Engineer
Ward No.10

Asst. Executive Engineer,
Vidyaranya Pura Sub division

Executive Engineer,
Byatarayana Pura Division

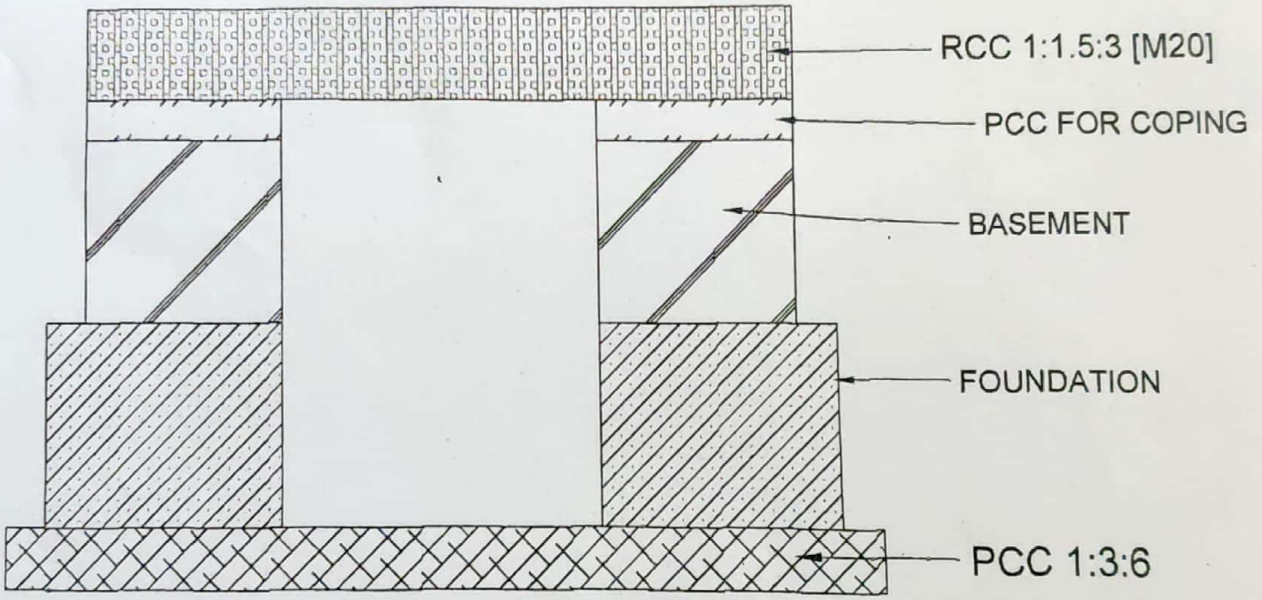
ADMINISTRATIVE APPROVAL
Accorded For Rs. 100.00 Lakhs only
Head of A/c. P0541
Div. Ref. No. 43 Date 8/10/2020
AE
EE(BTP) 8/10

Name of Work: Construction of RCC Drain at doddabommasandra Main road from Najappa Circle to Petrol Bunk in Ward No-10 (Doddabommasandra).

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division

152 - BYATARAYANAPURA AC
WARD NAME : 10 - DODDA BOMMASANDRA



CROSS SECTION FOR CULVERT

Sunitha. N.R
AE W10

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